

B2  
mutants include: Q-2 to S-967; R-3 to S-967; A-4 to S-967; V-5 to S-967; P-6 to S-967; E-7 to S-967; G-8 to S-967; F-9 to S-967; G-10 to S-967; R-11 to S-976; R-12 to S-967; K-13 to S-967; L-14 to S-967; G-15 to S-967; S-16 to S-967; D-17 to S-967; and M-18 to S-967.

Please cancel the existing Sequence Listing for the above-identified application, replace it with the substitute Sequence Listing appended hereto, and insert the same at the end of the application.

*In the Claims:*

Please substitute the following claims 38, 46, 47, 67, 68 and 69 for the pending claims 38, 46, 47, 67, 68 and 69, respectively:

B3  
38. (once amended) An isolated polynucleotide at least 30 nucleotides in length which hybridizes at 42°C in 50% formamide, 5xSSC, 50 mM sodium phosphate, 5x Denhardt's solution, 10% dextran sulfate, and 20 µg/ml denatured, sheared salmon sperm DNA, followed by washing in 0.1xSSC at 65°C, with a probe consisting of nucleotides 466 to 3366 of SEQ ID NO:125.

reads as a cosmid or isolated chromosome

B4  
46. (once amended) An isolated polynucleotide comprising a nucleotide sequence which is fully complementary to a polynucleotide sequence encoding amino acids 1 to 967 of SEQ ID NO:126.

B4  
Pub  
D1  
1

47. (once amended) The isolated polynucleotide of claim 46, comprising a nucleotide sequence which is fully complementary to nucleotides of 466 to 3366 SEQ ID NO:125.

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B6  
D11

67. (once amended) An isolated polynucleotide comprising a nucleotide sequence which is fully complementary to a polynucleotide sequence encoding amino acids 1 to 950 of SEQ ID NO:2.

B5  
Pub  
D11

68. (once amended) The isolated polynucleotide of claim 67, comprising a nucleotide sequence which is fully complementary to nucleotides 1 to 2853 of SEQ ID NO:1.

69. (once amended) An isolated polynucleotide at least 30 nucleotides in length which hybridizes at 42°C in 50% formamide, 5xSSC, 50 mM sodium phosphate, 5x Denhardt's solution, 10% dextran sulfate, and 20 µg/ml denatured, sheared salmon sperm DNA, followed by washing in 0.1xSSC at 65°C, with a probe consisting of nucleotides 1 to 2853 of SEQ ID NO:1.

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